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Hydrolysis of Alkali-Metal Borohrides (USSR), by K. N. Mochalov, G. G. Gil'manshin.

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*FTD-TT-62-1462

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Polarographic Study of Borohydrides of Alkali Metals, by K. N. Mochalov, G. G. Gil'manshin, 13 pp.

RUSSIAN, per, Zhur ~~R&X~~ Fiz Khim, Vol XXXVI, No 5, 1962, pp 1089-1094. 9679813

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Infrared Spectroscopy Applied to the Investigation of the Reaction of Water With Alumina Surface, by A. V. Uvarov.
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NTC-71-12457-07D

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Neutron Diffraction Study of High-Temperature Annealed Beryllium Oxide, by E. M. Kuleshov, G. G. Sadukov, et al, 5 pp.
RUSSIAN, per, Zhur Fiz Khim, Vol XXXVI, 1962, pp 1369-1371. 9222676
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*FTD-TT-62-1536

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Combustion of Ammonium Perchlorate, by L. D. Romodanova, V. I. Roshchupkin.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXVI, No 7, 1962, pp 1554, 1555.

*FTD-TT-62-1561

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Lazorenko-Manevich, R. M.
THE REDISTRIBUTION OF POTENTIAL AT THE SEMICONDUCTOR ELECTROLYTE INTERFACE UNDER THE INFLUENCE OF LIGHT. [1963] [11]p. 7 refs.
Order from OTS or SLA $1.60 63-14735

Trans. of *Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1962, v. 36 [no. 9] p. 2066-[2071].

DESCRIPTORS: *Semiconductors, *Electrolytes, *Electrodes, *Light, Distribution, Electric potential, Electric currents, *Electrochemistry, *Photochemistry.

The effect of illumination on the separate components of the overvoltage at the semi-conductor electrode is investigated. If a current flows through the system, the potential shifts which originate during illumination of the electrode in the Helmholtz portion of the double layer ($d\phi_p/d\phi_{O3}$) and in the surface dipole layer (Chemistry--Physical, TT, v. 10, no. 4) (over)

63-14735

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Standard Enthalpies of Formation of 1,1-Difluoroethylene and Trifluoroethylene, by V. P. Kolesov, et al.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 36, 1962, pp 2078-2081.
NTC 71-14598-07D

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910048-3

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Optical Sensitization of the Photoeffect of Zinc Oxide and the Adsorption Isotherms of Dyes, by N. N. Markevich, E. K. Putsieko, RUSSIAN, per. Zh. Fiz. Khim., Vol XXXVI, No 11, 1962, pp 2393-2399.
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Distribution of Lithium Isotopes in Immiscible Solvents, by V. M. Kolotyrkin, N. I. Nikolayev, 2 pp

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Rmy tr 3369/CMX 962

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Combustion of Three-Component Condensed Systems,
by N. N. Bakhman, Yu. A. Kondrat'yev.
RUSSIAN, per, Zhur Fiz Khim, Vol XXXVII,
No 1, 1963, pp 216-219.

NASA TT F-8436

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Stryaeva, G. V., Gorbatkina, Yu. A., and Andreevskaya, G. D.
METHODS FOR DETERMINING ADHESION OF POLYMERS TO GLASS FIBER SURFACES. [1963] 8p 10refs
Order from OTS, SLA, or ETC $1.10 TT-64-10686

Trans. of #Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1963, v. 37 [No. 1] p. 237-241. (Abstract available)

DESCRIPTORS: *Surfaces, *Glass textiles, Polymers, *Adhesion, Polyester plastics, Resins, Binders, Fibers (Synthetic), Adhesives,

Two methods were developed for the direct determination of the adhesion of polymeric binders to glass filaments. The methods are based on measurement of displacement force of glass filament with respect to the film of polymerized binder and on determination of the contact area between the resin and filament. One of the
(Chemistry--Physical, TT, v. 11, no. 9) (over)

TT-64-10686

I. Stryaeva, G. V.
II. Gorbatkina, Yu. A.
III. Andreevskaya, G. D.

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Effect of Stimulation of Trigeminal Nerve on Electrotonic Potentials of Dorsal Roots in Cats, by T.N.Mamonets.
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Vyrodov, I. P.
DIFFUSION KINETICS OF REACTIONS. PT. II. FIRST ORDER REACTIONS. [1963] 8p 2refs
Order from OTS, SLA, or ETC $1.10 TT-64-14449

Trans. of #Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1963, v. 37 [no. 2] p. 413-419. (Abstract available)

DESCRIPTORS: *Catalysis, *Diffusion, *Reaction kinetics, Liquids, Solids, Surface properties.

The diffusion kinetics of reactions at the liquid-solid interface are discussed. Diffusion of the products occurs within a finite volume (sphere of radius R). The reaction at the surface is of the first order up to the moment of saturation of the pre-surface layer by the products. Following this, no change in the limiting concentration in the presurface layer occurs up to the end of the reaction between the liquid medium and the solid. The solution, proposed for the diffusion problem
(Chemistry--Physical, TT, v. 11, no. 7) (over)

TT-64-14449

I. Vyrodov, I. P.
II. Title: First ...

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Order from ATS $12.00 ATS-99Q72R

Trans. of #Zh[urnal] F1z[icheskil] Khim[il] (USSR) 1963, v. 37, no. 6, p. 1297-1303.

DESCRIPTORS: *Porous materials.

(Chemistry--Physical, TT, v. 11, no. 10)

TT-64-12436

I. Kaenzhek, O. S.
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III. Associated Technical Services, Inc., East Orange, N. J.

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Association des vapeurs d'acide fluorhydrique et chaleur de leur formation, by V. A. Medvedev, 8 pp.
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SOME ASPECTS OF THE CURRENT STATUS OF THE FUEL CELL PROBLEM, BY O. K. DAVTYAN, 12 PP

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JPRS 22148

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Studies on the Deflagration-to-Detonation Transition of Explosives, by K. K. Andreyev, V. V. Gorbunov. RUSSIAN, per, Zhur Fiz Khim, Vol XXXVII, No 9, 1963, pp 1958-1965.

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I. Karapet'yants, M. Kh.
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Density and Viscosity of Nitrogen Tetroxides Solutions in 70% Nitric Acid, by M. M. Karavayev, V. A. Zhantalay, 5 pp.
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Dependence of the Heats of Formation of Hafnium Carbide on Composition, by V. I. Zhelankin, V. S. Kutsev, 5 pp.
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Dissociation of Carbon dioxide in Silent Electric Discharge, by Yu. P. Andreyev, et al.
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J. Wormnow
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Installation For Pulse Measurements
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by V. A. Tyagai, Yu. V. Pleskov.
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The Behavior of Small Amounts of Nitromethane in Aqueous Sulfuric and Hydrochloric Acid Solutions, by Yu. L. Khalkdna, Kh. I. Kuura, et al, 11 pp. RUSSIAN, per, Zhur Fiz Khim, Vol XXXVIII, No 4, 1964, pp 863-870. 9226590
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NCH-200 688 Field 11F, 7D

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NBS S-465330-68-D

R-9305-D
28 Mar 68

Zhurnal fizicheskoo Khimii V 28, No 9, P 1690-1697, 1964
Author: ZHUK, N. P. (7 pp)

Russian - est for wds:

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Thermodynamic Constants of Difficultly Soluble Sulfates, Carbonates, Chromates, Bromates, Iodates, Oxalates and Other Metal Salts, by N. P. Zhuk, 10 pp.
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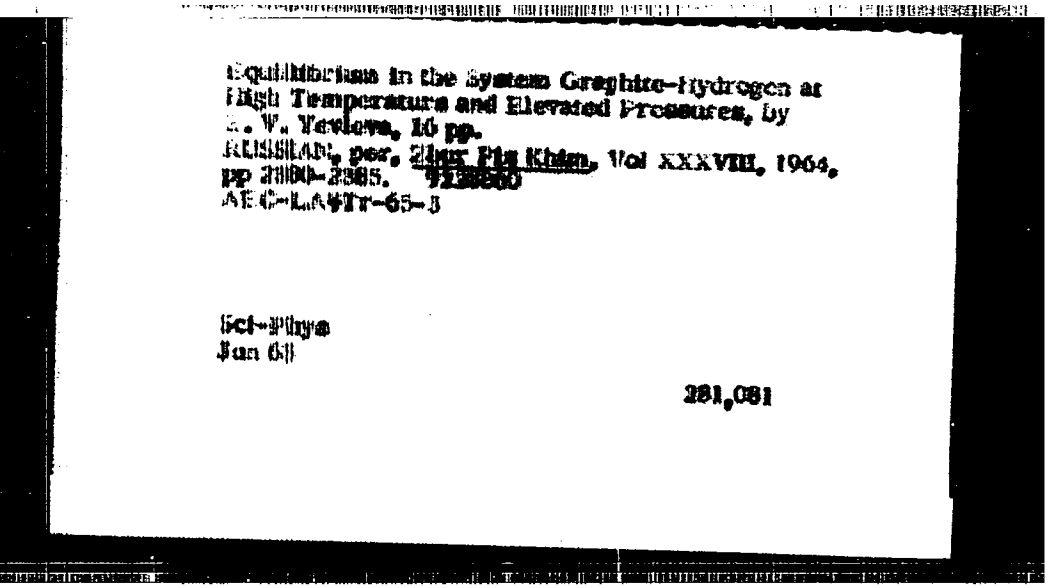

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ON THE DAMPING AND DISPERSION OF SEISMIC WAVES. [1962] 20p. 26 refs.
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DESCRIPTORS: *Seismic waves, Damping, Propagation.

A theory of seismic-wave propagation is developed on the basis of Boltzmann's theory of elastic post-action. The theory leads to damping and dispersion of seismic waves, in agreement with observation. In the conclusion an application of the principle of conservation of momentum to pulse propagation, is given. (Author)

(Earth Sciences--Seismology, TT, v. 9, no. 12)

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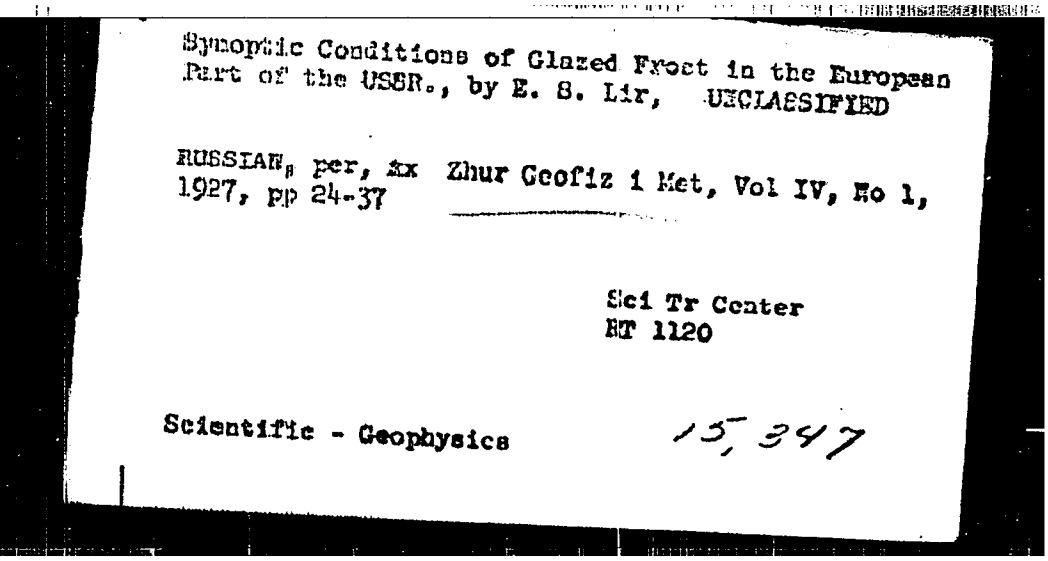

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L. Kantorovich, M. Sergeuz, 17 pp.

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